

(Sec. 6(c), Department of Transportation Act (49 U.S.C. 1655(c)))
 [Doc. No. 1580, Amdt. 1-1, 28 FR 6717, June 29, 1963, as amended by Amdt. 93-29, 39 FR 32552, Sept. 9, 1974]

PART 95—IFR ALTITUDES

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AUTHORITY: 49 U.S.C. 106(g), 40103, 40113, and 14 CFR 11.49(b)(2).

Subpart A—General

§ 95.1 Applicability.

(a) This part prescribes altitudes governing the operation of aircraft under IFR on Federal airways, jet routes, area navigation low or high routes, or other direct routes for which a MEA is designated in this part. In addition, it designates mountainous areas and changeover points.

(b) The MAA is the highest altitude on a Federal airway, jet route, area navigation low or high route, or other direct route for which a MEA is designated in this part at which adequate reception of navigation aid signals is assured.

(c) The MCA applies to the operation of an aircraft proceeding to a higher minimum en route altitude when crossing specified radio fixes.

(d) The MEA prescribed for a Federal airway or segment thereof, area navigation low or high route, or other direct route, applies to the entire width of the airway, segment or route between the radio fixes defining the airway, segment or route. An MEA prescribed for an off-airway route or route segment applies to the airspace five statute miles on each side of a direct course between radio fixes defining that route or route segment.

(e) The MOCA applies to the operation of an aircraft within 25 statute miles of the VOR station concerned. The MOCA assures obstruction clearance between the fixes specified but adequate reception of navigational signals is assured only within 25 miles of the VOR station concerned.

(f) The MRA applies to the operation of an aircraft over an intersection used in the navigation of that aircraft. The

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MRA is the lowest altitude at which the intersection can be determined.

(g) The COP applies to operation of an aircraft along a Federal airway, jet route, area navigation low or high route, or other direct route for which a MEA is designated in this part. It is the most appropriate point for transfer of the airborne navigation reference between the facility or way point abaft the aircraft and the next appropriate facility or way point along the Federal airway, jet route, area navigation low or high route, or other direct route that provides:

(1) Continuous reception between facilities; and

(2) A common source of azimuth guidance for all aircraft operating along the same segment of the Federal airway, jet route, area navigation low or high route, or other direct route.

[Doc. No. 1580, 28 FR 6718, June 29, 1963, as amended by Amdt. 95-118, 29 FR 13166, Sept. 23, 1964; Amdt. 95-198, 35 FR 14610, Sept. 18, 1970]

§ 95.3 Symbols.

For the purposes of this part—

(a) *COP* means changeover point;

(b) *L* means compass locator;

(c) *LF/MF* means low frequency, medium frequency;

(d) *LFR* means low frequency radio range;

(e) *VOR-E* means VOR and distance measuring equipment; and

(f) *Z* means a very high frequency location marker.

[Doc. No. 1580, 28 FR 6718, June 29, 1963, as amended by Amdt. 95-118, 29 FR 13166, Sept. 23, 1964]

Subpart B—Designated Mountainous Areas

§ 95.11 General.

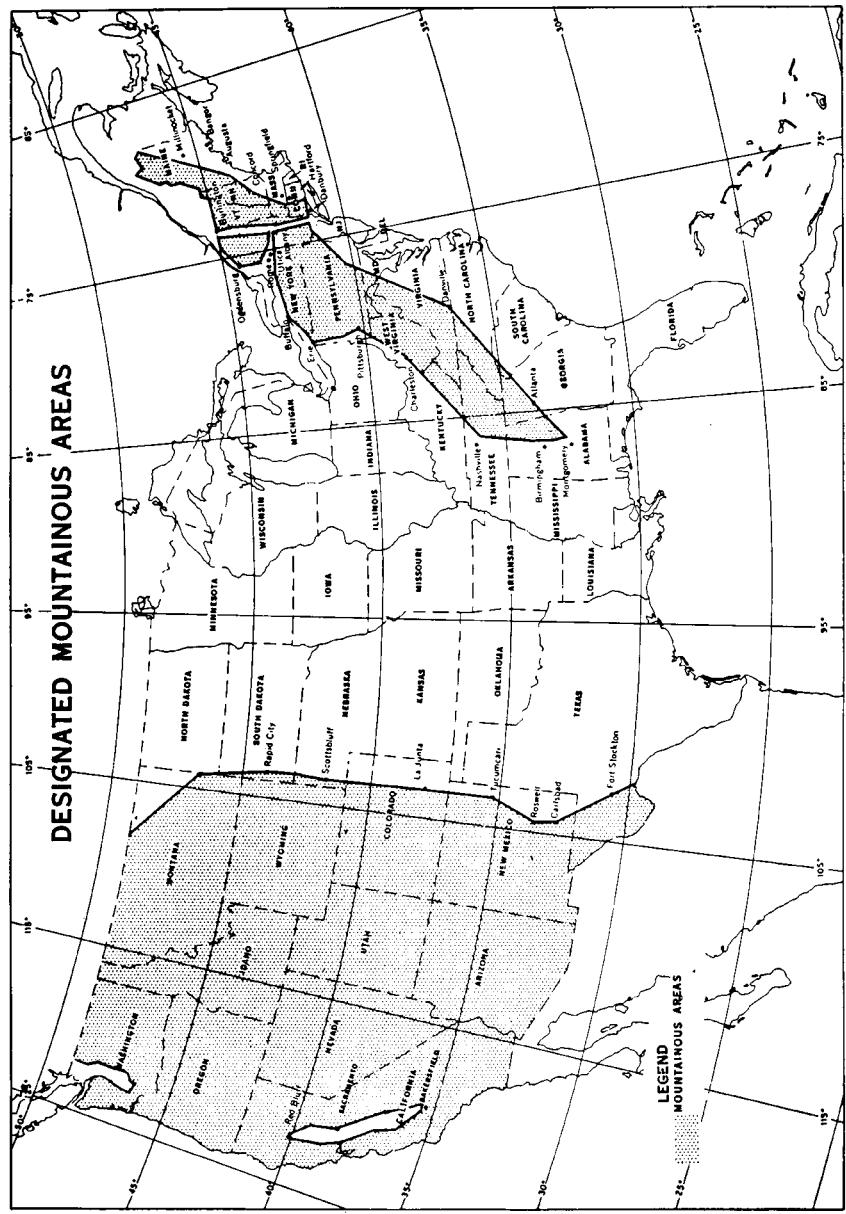
The areas described in this subpart are designated mountainous areas.

[Doc. No. 1580, 28 FR 6718, June 29, 1963]

§ 95.13 Eastern United States Mountainous Area.

All of the following area excluding those portions specified in the exceptions.

(a) *Area.*



[Doc. No. 13284, Amdt. 95-255, 40 FR 2578, Jan. 14, 1975]

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Beginning at latitude 47°10' N., longitude 67°55' W.; thence west and south along the Canadian Border to latitude 45°00' N., longitude 74°15' W.; thence to latitude 44°20' N., longitude 75°30' W.; thence to latitude 43°03' N., longitude 75°30' W.; thence to latitude 42°57' N., longitude 77°30' W.; thence to latitude 42°52' N., longitude 78°42' W.; thence to latitude 42°26' N., longitude 79°13' W.; thence to latitude 42°05' N., longitude 80°00' W.; thence to latitude 40°50' N., longitude 80°00' W.; thence to latitude 40°26' N., longitude 79°54' W.; thence to latitude 38°25' N., longitude 81°46' W.; thence to latitude 36°00' N., longitude 86°00' W.; thence to latitude 33°37' N., longitude 86°45' W.; thence to latitude 32°30' N., longitude 86°25' W.; thence to latitude 33°22' N., longitude 85°00' W.; thence to latitude 36°35' N., longitude 79°20' W.; thence to latitude 40°11' N., longitude 76°24' W.; thence to latitude 41°24' N., longitude 74°30' W.; thence to latitude 41°43' N., longitude 72°40' W.; thence to latitude 42°13' N., longitude 72°44' W.; thence to latitude 42°13' N., longitude 72°44' W.; thence to latitude 43°12' N., longitude 71°30' W.; thence to latitude 43°45' N., longitude 70°30' W.; thence to latitude 45°00' N., longitude 69°30' W.; thence to latitude 47°10' N., longitude 67°55' W., point of beginning.

(b) *Exceptions.* The area bounded by the following coordinates:

Beginning at latitude 45°00' N., longitude 73°26' W.; thence to latitude 44°32' N., longitude 73°04' W.; thence to latitude 42°51' N., longitude 73°41' W.; thence to latitude 41°38' N., longitude 73°46' W.; thence to latitude 41°16' N., longitude 73°50' W.; thence to latitude 41°17' N., longitude 74°00' W.; thence to latitude 41°25' N., longitude 73°58' W.; thence to latitude 41°26' N., longitude 74°01' W.; thence to latitude 41°37' N., longitude 73°58' W.; thence to latitude 42°41' N., longitude 73°55' W.; thence to latitude 43°02' N., longitude 76°15' W.; thence to latitude 43°17' N., longitude 75°21' W.; thence to latitude 42°59' N., longitude 74°43' W.; thence to latitude 42°52' N., longitude 73°53' W.; thence to latitude 44°30' N., longitude 73°18' W.; thence to latitude 45°00' N., longitude 73°39' W.; thence to latitude 45°00' N., longitude 73°26' W., point of beginning.

[21 FR 2750, Apr. 28, 1956. Redesignated by Amdt. 1-1, 28 FR 6718, June 29, 1963]

§ 95.15 Western United States Mountainous Area.

All of the following area excluding that portion specified in the exceptions:

(a) *Area.* From the Pacific coastline of the United States, eastward along the Canadian and Mexican borders, to the following coordinates:

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Beginning at latitude 49°00' N., longitude 108°00' W.; thence to latitude 46°45' N., longitude 104°00' W.; thence to latitude 44°06' N., longitude 103°15' W.; thence to latitude 43°00' N., longitude 103°15' W.; thence to latitude 41°52' N., longitude 103°39' W.; thence to latitude 35°11' N., longitude 103°39' W.; thence to latitude 33°17' N., longitude 104°27' W.; thence to latitude 32°17' N., longitude 104°14' W.; thence to latitude 29°48' N., longitude 102°00' W.

(b) *Exceptions.* (1) Beginning at latitude 35°25' N., longitude 119°09' W.; thence to latitude 35°29' N., longitude 118°58' W.; thence to latitude 36°49' N., longitude 119°37' W.; thence to latitude 38°30' N., longitude 121°24' W.; thence to latitude 39°30' N., longitude 121°32' W.; thence to latitude 40°08' N., longitude 122°08' W.; thence to latitude 40°06' N., longitude 122°20' W.; thence to latitude 39°05' N., longitude 122°12' W.; thence to latitude 38°01' N., longitude 121°51' W.; thence to latitude 37°37' N., longitude 121°12' W.; thence to latitude 37°00' N., longitude 120°58' W.; thence to latitude 36°14' N., longitude 120°11' W., point of beginning.

(2) Beginning at latitude 49°00' N., longitude 122°21' W.; thence to latitude 48°34' N., longitude 122°21' W.; thence to latitude 48°08' N., longitude 122°00' W.; thence to latitude 47°12' N., longitude 122°00' W.; thence to latitude 46°59' N., longitude 122°13' W.; thence to latitude 46°52' N., longitude 122°16' W.; thence to latitude 46°50' N., longitude 122°40' W.; thence to latitude 46°35' N., longitude 122°48' W.; thence to latitude 46°35' N., longitude 123°17' W.; thence to latitude 47°15' N., longitude 123°17' W.; thence to latitude 47°41' N., longitude 122°54' W.; thence to latitude 48°03' N., longitude 122°48' W.; thence to latitude 48°17' N., longitude 123°15' W.; thence North and East along the United States and Canada Boundary to latitude 49°00' N., longitude 122°21' W., point of beginning.

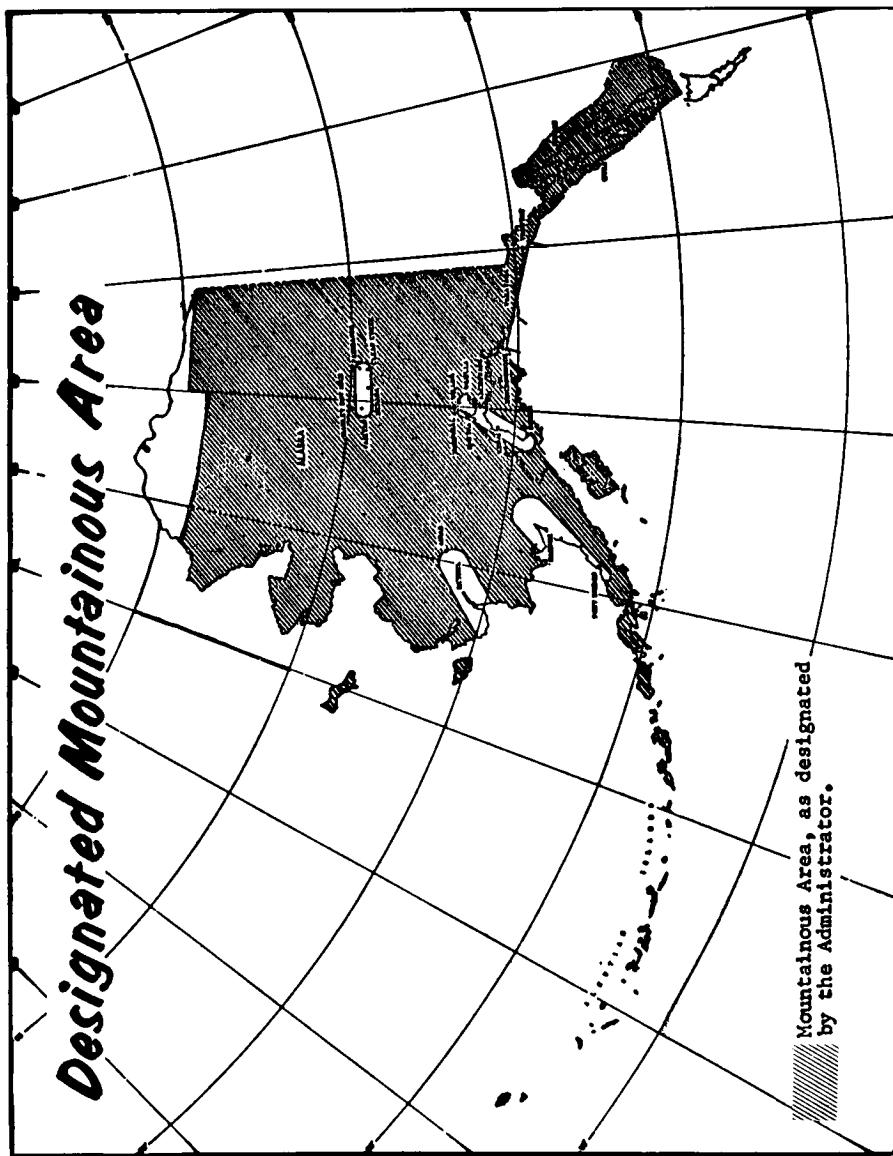
[21 FR 2750, Apr. 28, 1956. Redesignated by Amdt. 1-1, 28 FR 6718, June 29, 1963, and amended by Amdt. 95-255, 40 FR 2579, Jan. 14, 1975]

§ 95.17 Alaska Mountainous Area.

All of the following area excluding those portions specified in the exceptions:

(a) *Area.* The Territory of Alaska.
(b) *Exceptions.*

(1) Beginning at latitude 64°54' N., longitude 147°20' W.; thence to latitude 64°50' N., longitude 151°22' W.; thence to latitude 64°26' N., longitude 151°22' W.; thence to latitude 64°25' N., longitude 147°20' W.; thence to latitude 64°54' N., longitude 147°20' W., point of beginning.



(2) Beginning at latitude 61°50' N., longitude 151°12' W.; thence to latitude 61°24' N., longitude 150°28' W.; thence to latitude 59°40' N., longitude 152°23' W.; thence to latitude 59°33' N., longitude 151°28' W.; thence to latitude 60°31' N., longitude 150°43' W.; thence to latitude 61°13' N., longitude 149°39' W.; thence to latitude 61°37' N., longitude 149°15' W.;

thence to latitude 61°44' N., longitude 149°48' W.; thence to latitude 62°23' N., longitude 149°54' W.; thence to latitude 62°23' N., longitude 150°14' W.; thence to latitude 61°50' N., longitude 151°12' W., point of beginning.

(3) Beginning at latitude 58°56' N., longitude 156°58' W.; thence to latitude 58°47' N., longitude 156°27' W.; thence to latitude 56°43'

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N., longitude 158°39' W.; thence to latitude 56°50' N., longitude 159°00' W.; thence along the shore line to latitude 58°56' N., longitude 156°58' W., point of beginning.

(4) Beginning at latitude 61°47' N., longitude 159°40' W.; thence to latitude 61°34' N., longitude 159°15' W.; thence to latitude 60°32' N., longitude 161°42' W.; thence to latitude 60°45' N., longitude 162°06' W.; thence to latitude 61°47' N., longitude 159°40' W., point of beginning.

(5) Beginning at a point where latitude 39°30' intersects the northwest coast of Alaska and eastward along the 69°30' parallel to the 150° Meridian; thence northward along the 150° Meridian to 69°50' north latitude;

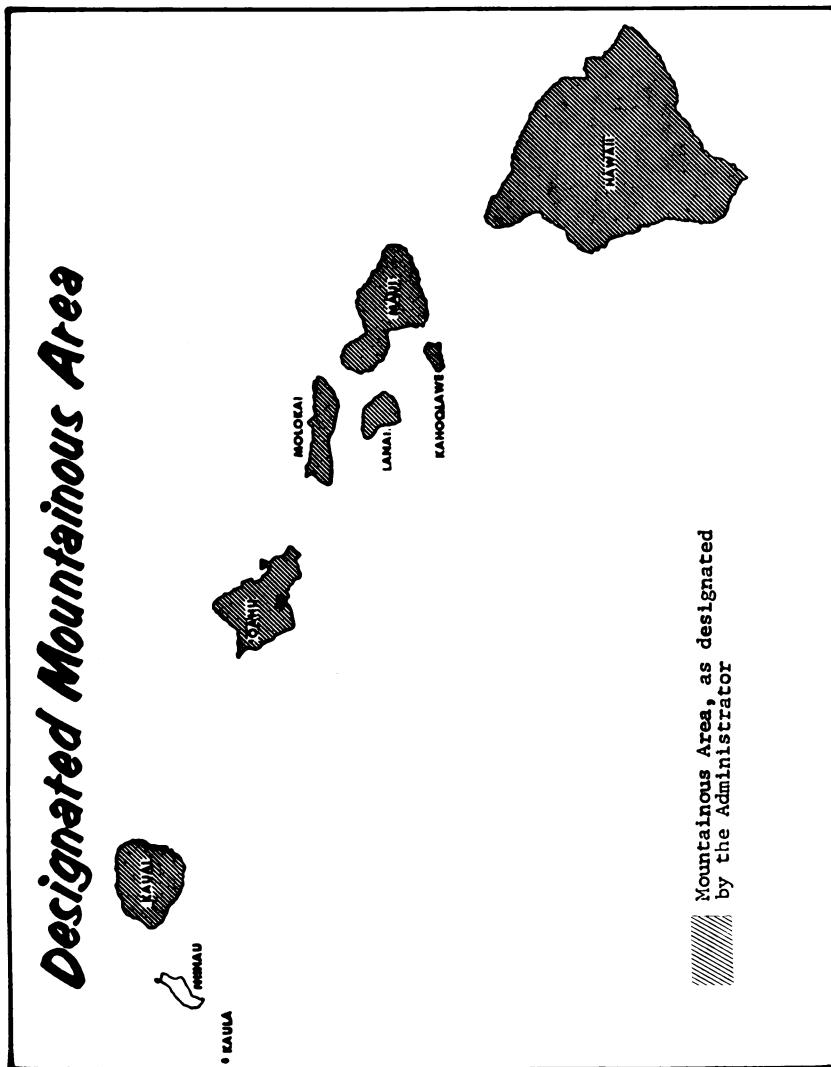
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thence eastward along the 69°50' parallel to a point where 69°50' intersects the northeast coastline of Alaska; thence westward along the northern coastline of Alaska to the intersection of latitude 69°30', point of beginning.

[21 FR 2750, Apr. 28, 1956, as amended by Amdt. 88, 27 FR 4356, May 8, 1962. Redesignated by Amdt. 1-1, 28 FR 6718, June 29, 1963]

§ 95.19 Hawaii Mountainous Area.

The following islands of the State of Hawaii: Kauai, Oahu, Molokai, Lanai, Kehoolawe, Maui, and Hawaii.



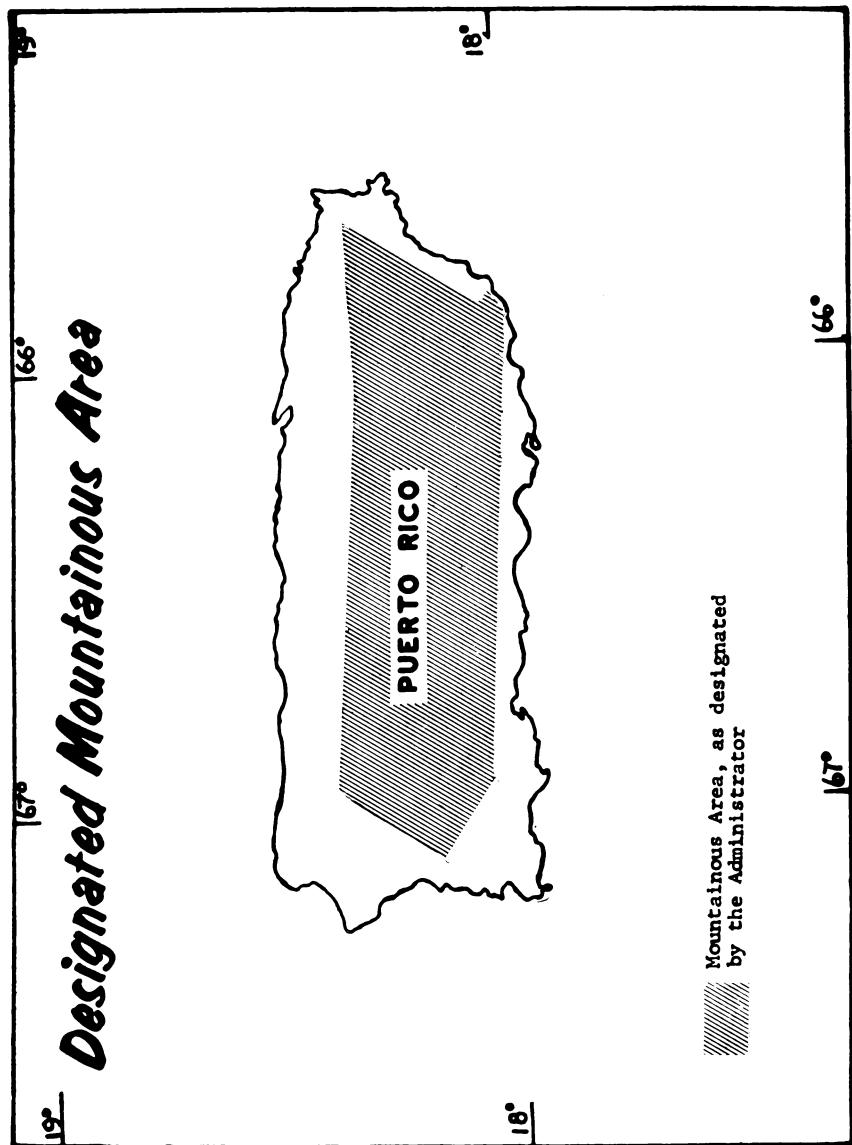
[Amdt. 88, 27 FR 4536, May 8, 1962. Redesignated by Amdt. 1-1, 28 FR 6719, June 29, 1963]

§ 95.21 Puerto Rico Mountainous Area.

The area bounded by the following coordinates:

Beginning at latitude 18°22' N., longitude 66°58' W.; thence to latitude 18°19' N., longitude 66°06' W.; thence to latitude 18°20' N., longitude 65°50' W.; thence to latitude 18°20' N., longitude 65°42' W.; thence to latitude 18°03' N., longitude 65°52' W.; thence to lati-

tude 18°02' N., longitude 65°51' W.; thence to latitude 17°59' N., longitude 65°55' W.; thence to latitude 18°05' N., longitude 66°57' W.; thence to latitude 18°11' N., longitude 67°07' W.; thence to latitude 18°22' N., longitude 66°58' W.; the point of beginning.



[Amdt. 88, 27 FR 4536, May 8, 1962; 27 FR 5603, June 13, 1962. Redesignated by Amdt. 1-1, 28 FR 6719, June 29, 1963]

Federal Aviation Administration, DOT**§ 97.3****Subpart C—En Route IFR Altitudes
Over Particular Routes and
Intersections**

EDITORIAL NOTE: The prescribed IFR altitudes for flights over particular routes and intersections in this subpart were formerly carried as §§610.11 through 610.6887 of this title and were transferred to part 95 as §§95.41 through 95.6887, respectively, but are not carried in the Code of Federal Regulations. For FEDERAL REGISTER citations affecting these routes, see the List of CFR Sections Affected in the Finding Aids section of this volume.

§ 95.31 General.

This subpart prescribes IFR altitudes for flights along particular routes or route segments and over additional intersections not listed as a part of a route or route segment.

[Doc. No. 1580, 28 FR 6719, June 29, 1963]

Subpart D—Changeover Points

EDITORIAL NOTE: The prescribed COP's for Federal airways, jet routes, or other direct routes for which an MEA is designated in this part are not carried in the Code of Federal Regulations. For Federal Register citations affecting these routes see the List of CFR Sections Affected in the Finding Aids section of this volume.

§ 95.8001 General.

This subpart prescribes COP's for Federal airways, jet routes, area navigation routes, or other direct routes for which an MEA is designated in this part. Unless otherwise specified the COP is midway between the navigation facilities or way points for straight route segments, or at the intersection of radials or courses forming a dogleg in the case of dogleg route segments.

[Doc. No. 10580, 35 FR 14610, Sept. 18, 1970]

**PART 97—STANDARD INSTRUMENT
APPROACH PROCEDURES****Subpart A—General**

Sec.

97.1 Applicability.

97.3 Symbols and terms used in procedures.

97.5 Bearings; courses; headings; radials; miles.

Subpart B—Procedures

97.10 General.

Subpart C—TERPS Procedures

97.20 General.

AUTHORITY: 49 U.S.C. 106(g), 40103, 40113, 40120, 44701; and 14 CFR 11.49(b)(2).

SOURCE: Docket No. 1580, 28 FR 6719, June 29, 1963, unless otherwise noted.

Subpart A—General**§ 97.1 Applicability.**

This part prescribes standard instrument approach procedures for instrument letdown to airports in the United States and the weather minimums that apply to takeoffs and landings under IFR at those airports.

§ 97.3 Symbols and terms used in procedures.

As used in the standard terminal instrument procedures prescribed in this part—

(a) *A* means alternate airport weather minimum.

(b) *Aircraft approach category* means a grouping of aircraft based on a speed of 1.3 V_{so} (at maximum certificated landing weight). V_{so} and the maximum certificated landing weight are those values as established for the aircraft by the certifying authority of the country of registry. The categories are as follows:

(1) Category A: Speed less than 91 knots.

(2) Category B: Speed 91 knots or more but less than 121 knots.

(3) Category C: Speed 121 knots or more but less than 141 knots.

(4) Category D: Speed 141 knots or more but less than 166 knots.

(5) Category E: Speed 166 knots or more.

(c) Approach procedure segments for which altitudes (all altitudes prescribed are minimum altitudes unless otherwise specified) or courses, or both, are prescribed in procedures, are as follows:

(1) *Initial approach* is the segment between the initial approach fix and the intermediate fix or the point where the aircraft is established on the intermediate course or final approach course.